QUALITY SAFETY ENVIRONMENT

No single component of the extrusion production process should be examined or evaluated individually.

Each interacts with at least one other complementary element of the process. If the interacting elements are equally efficient, they will reinforce and enhance the function of each other.

Only if the entire production process is considered as an integrated system, with all parts operating together in common cause, can maximum efficiency be approached.

All Castool products promote energy conservation and are environmentally friendly.

PREFERRED TOOLING

EXCO®

ALUMINUM EXTRUDERS COUNCIL MEMBER

CASTOOL TOOLING SYSTEMS 25

CASTOOL TOOLING SYSTEMS 90

CASTOOL TOOLING SYSTEMS 180

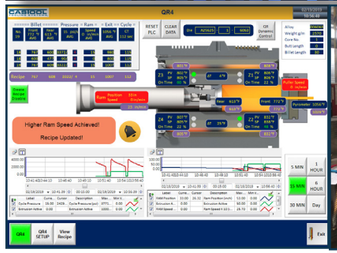
MOROCCO +212.530.291.820

THAILAND +66.38.345.188

WWW.CASTOOL.COM

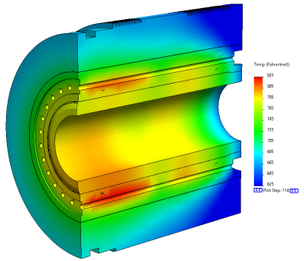
02/2023

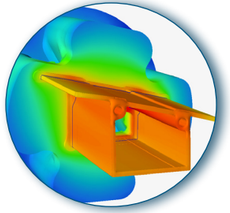
BETTER PROFILES FASTER



PROGRAMMING

OPTIMIZATION





SIMULATION

HyperXtude and SolidWorks

THE PERFECT DIE

requires the die and liner temperature to be stable from the first to the last billet.

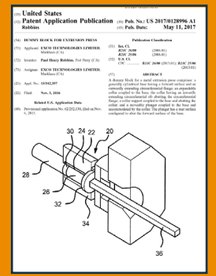
MATERIALS

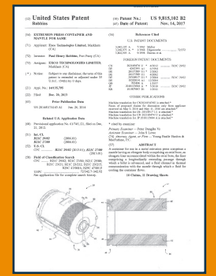
ALLOY	Working hardness (HRC)	Hot strength	Toughness	Hot wear resistance	Thermal Conductivity (W/mk)	Cost
Con-Duct	34-38	●	●●●●●●●	●	●●●●	○
L6 (1.2714)	38-42	●◖	●●●	●◖	●●●	○
H11 (1.2343)	38-52	●●	●●◖	●●	●●	●
H13 (1.2344)	38-52	●●◖	●●◖	●●◖	●●	●
E40K	42-52	●●●	●●●◖	●●●	●●◖	●●
Tuff Temper	42-52	●●●◖	●●	●●●●	●●◖	●●
Q10	42-52	●●●	●●●	●●●	●●◖	●●
DAC3	42-52	●●●	●●●	●●●	●●◖	●●

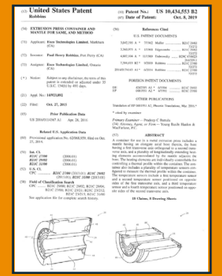
Extrusion processes can vary widely. Alloy types, pressures, cycle times, size and lubrication can all play a role. Choosing the best material for each component of the tooling system can be challenging, at the same time as being cost competitive.

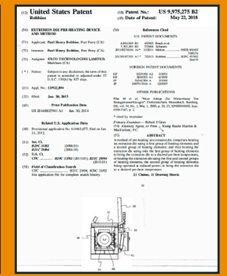
The chart lists the thermal conductivity, wear properties, temperature range and cost factor for several of the materials Castool uses.

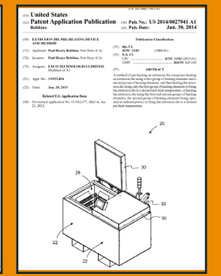
MANY OF *CASTOOL PRODUCTS AND PROCESSES ARE* PATENTED.



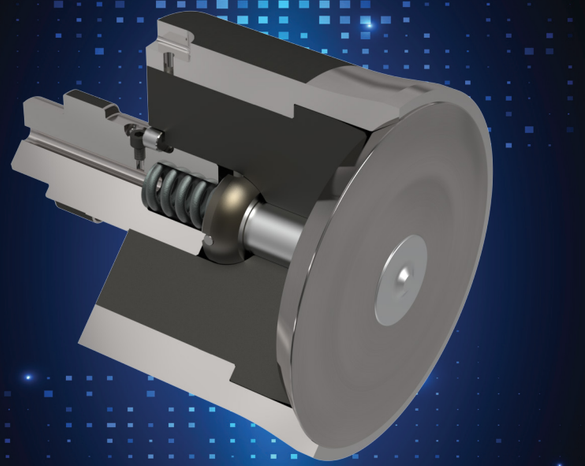








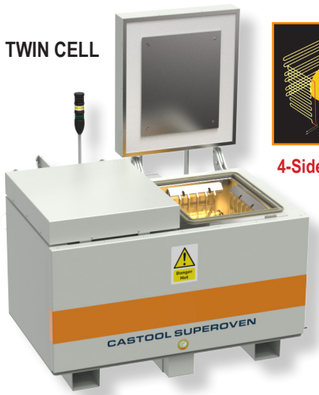
EXTRUSION

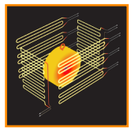


CASTOOL™ TOOLING SYSTEMS

DIE HEATERS

TWIN CELL



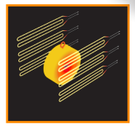


4-Side Heating

SINGLE CELL

TCX100/200/Custom

APPROVED



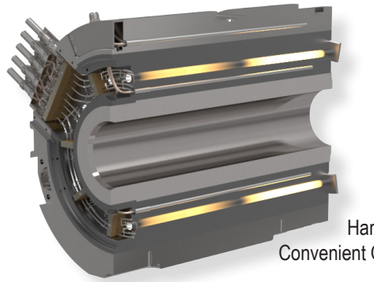
2-Side Heating

TRIPLE CELL

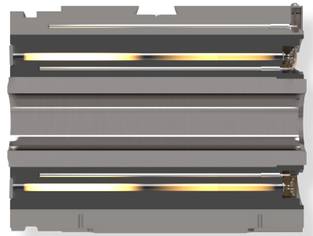
MASTER CONTROLLER

TRC40/50/60

CONTAINERS, RELINES
AND CONTROL PANELS

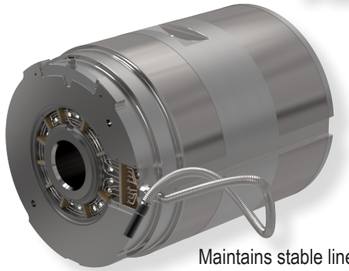


Hard-Wired or
Convenient Quick-Connect Plug



QR, QRC, QRX
Optional air and water control
for increased productivity

3-PIECE FOR ADDED STRENGTH



Quick Response (QR) Container

Maintains stable liner temperature by dissipating heat as generated by the process

SHEAR BLADES

ALLOY AND
PROFILE SPECIFIC

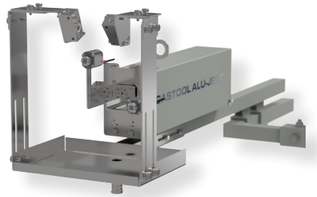
DELTA

SCOOP

2-Piece SCOOP

KNIFE

LUBRICATION



CONTROLLERS,
APPLICATORS AND LUBRICANTS

TOOL RELEASE
Boron Nitirde
Protection

ALU-JECT

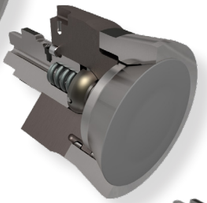
STICK, LIQUID

NO SMOKE, WATER BASED BIODEGRADABLE

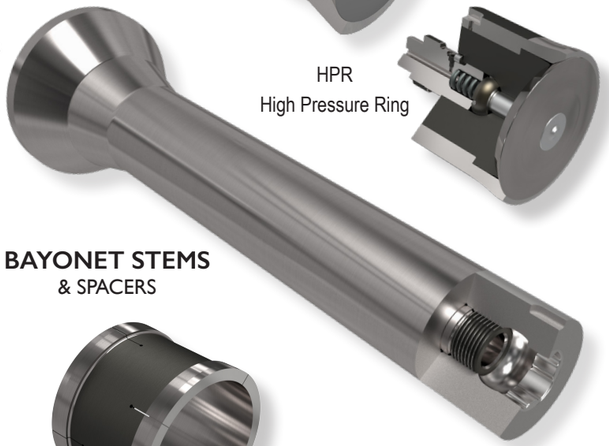
DUMMY BLOCKS

H-13 (1.2344) and Tuff Temper

Marathon
for high pressure

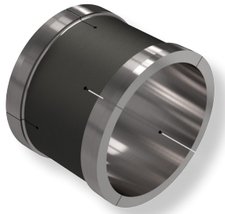


RRB
Replaceable Ring
(economy of
interchanging parts)



HPR
High Pressure Ring

BAYONET STEMS
& SPACERS



COLD CLEAN
OUT BLOCKS

Deutsche Edelstahlwerke

HOT WORK TOOL STEELS

Die Jacks and Splitters Available

Die Management Software, Visual Optimization Systems,
Remote Optical Pyrometers

AST Accurate Sensors Technologies
OPTICAL PYROMETERS

PRESS TOOLING : Die Rings, Bolsters, Pressure Rings, Billet Shears, Die Slides, Horseshoes, Tie Rods, Tool Rams, Tool Containers, Heated Ram Noses, Piercing Mandrels, Scalper Blades...

CASTOOL MAKES EXTRUSION BETTER